

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
8 July 2004 (08.07.2004)

PCT

(10) International Publication Number
WO 2004/056827 A2

(51) International Patent Classification⁷: C07D 487/00

(21) International Application Number:
PCT/EP2003/050942

(22) International Filing Date: 4 December 2003 (04.12.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/434,952 19 December 2002 (19.12.2002) US

(71) Applicant (for all designated States except US): PHARMACIA ITALIA SPA [IT/IT]; Via Robert Koch, 1.2, I-20052 Milano (IT).

(72) Inventors; and

(75) Inventors/Applicants (for US only): BRASCA, Maria, Gabriella [IT/IT]; Via Dante Alighieri, 15, I-20090 Cusago (Milan) (IT). AMICI, Raffaella [IT/IT]; Via Eugenio Montale, 34, I-20073 Codogno (Lodi) (IT). FANCELLI, Daniele [IT/IT]; Via Montecuccoli, 8, I-20147 Milan (IT). NESI, Marcella [IT/IT]; Via Padre Paolo Reina, 2, I-21047 Saronno (Varese) (IT). ORSINI, Paolo [IT/IT]; Via Don Reina, 7, I-21013 Gallarate (Varese) (IT). ORZI, Fabrizio [IT/IT]; Via Angera, 10, I-20125 Milan (IT). ROUSSEL, Patrick [FR/IT]; Via XXIV Maggio,

24, I-20014 Nerviano (Milan) (IT). VULPETTI, Anna [IT/IT]; Via Voltorno, 80 Portici 3, I-20047 Brugherio (Milan) (IT). PEVARELLO, Paolo [IT/IT]; Piazza San Pietro in Ciel d'Oro, 7/A, I-27100 Pavia (IT).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2004/056827 A2

(54) Title: SUBSTITUTED PYRROLO-PYRAZOLE DERIVATIVES AS KINASE INHIBITORS

(57) Abstract: Compounds represented by formula (Ia) or (Ib) and wherein R and R₁ are as defined in the description, and pharmaceutically acceptable salts thereof, are disclosed; the said compounds are useful in the treatment of cell cycle proliferative disorders, e.g. cancer, associated with an altered cell cycle dependent kinase activity.